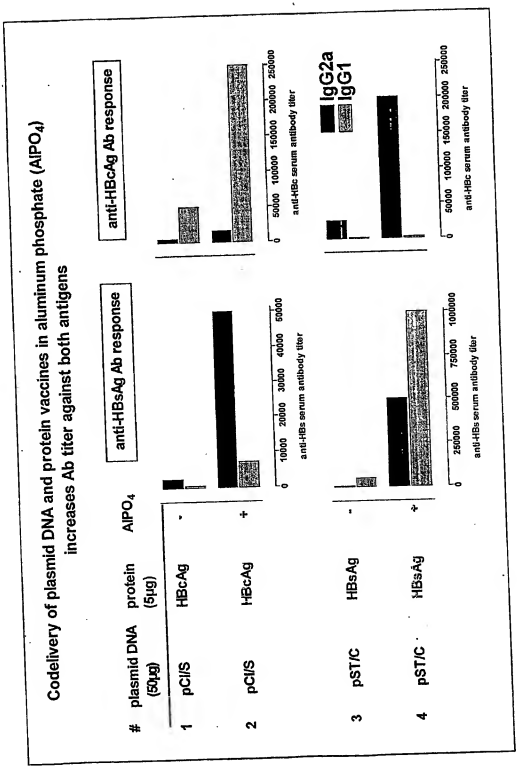
Codelivery of plasmid DNA and protein vaccines in aluminum phosphate ($AlPO_4$) increases Ab titer against both antigens
plasmid DNA (50µg) protein (5µg) $AlPO_4$
1 pCI/S HBcAg -
2 pCI/S HBcAg +
3 pST/C HBsAg -
4 pST/C HBsAg +
anti-HBsAg Ab response
0 10000 20000 30000 40000 50000
anti-HBs serum antibody titer
0 250000 500000 750000 1000000
anti-HBs serum antibody titer
anti-HBcAg Ab response
IgG2a
IgG1
0 50000 100000 150000 200000 250000
anti-HBc serum antibody titer
0 50000 100000 150000 200000 250000
anti-HBc serum antibody titer

Fig. 1